

Information to be used in submitting Application to the Federal
 Government for Funds, from the Appropriation for the construction
 of Public Works, with which to build the initial sections of a
 Rapid Transit System in the City of San Francisco, California -
Submitted April 1935

1. Total loan requested \$56,200,000.
2. A schedule showing when funds will be needed and amounts, follows:

Schedule of Funds Required
 (Interest not included)

Initial	\$ 305,000
At end of 2 months	774,000
4	1,224,000
6	774,000
8	5,804,000
10	5,628,000
12	6,048,000
14	5,548,000
16	5,548,000
18	5,538,000
20	5,498,000
22	5,488,000
24	<u>5,803,000</u>
TOTAL	53,980,000
Interest	<u>2,220,000</u>
TOTAL	\$56,200,000

3. A general description of the project proposed is as follows:

San Francisco is the center of a metropolitan area comprising a population of approximately 1,700,000. In 1931 a report was prepared by the City Engineer proposing certain subway lines costing \$21,700,000. A copy of this report is attached.

Since 1931 two of the largest bridges in the world have been designed and placed under construction to be completed in 1938. The construction of these bridges necessitates prompt action on the part of San Francisco to care for the increased travel into the City and to provide local service within the City which will be as attractive as the quick all rail service to be given to the East Bay Cities of Oakland, Alameda and Berkeley. The Transbay Terminal is proposed to be moved from its present location at the Ferries at the foot of Market Street, to a new location farther up-town and south of Market Street. It is estimated that the initial number of passengers using this station will be 37,000,000 annually.

The local lines must be rerouted to this new location. Both bridges are designed for automobile traffic. At present Market Street, the principal thoroughfare, has four lines of street car tracks and but two automobile lanes; the latter are not sufficient to satisfactorily handle the traffic.

Because of the down-town street pattern all traffic eventually comes into Market Street or crosses it. Streets to the north of Market Street do not meet those south of Market, except at relatively few places. At these crossings the dense Market Street travel is hindered by the heavy cross travel resulting in surface car schedules on Market Street falling below four miles per hour during the rush hours with many delays of from 5 to 15 minutes beyond schedule time.

The construction of the rapid transit lines herein proposed will accomplish the following:

- 1 - Provide quick and convenient service to the East Bay Terminal.
- 2 - Permit the removal of two tracks from Market Street, thereby adding not less than two additional automobile lanes.
- 3 - Avoid all of the present delays at heavily traveled cross streets.
- 4 - Decrease the running time between the financial and down-town retail districts and the residential districts by from 15 to 30 minutes.
- 5 - Provide an important link for an outlet from San Francisco to the Peninsula Cities where the population tributary to San Francisco increased 123 per cent between 1920 and 1930.
- 6 - Hold real estate values in San Francisco stable by preventing decentralization and loss of population.

The map attached shows each of the four projects in a separate color and the location of the bridges under construction.

Initially it is the intention to use street cars in all of the subways except the Mission Street line for which new cars will be necessary. The cost of making changes in the street cars to suit them for higher speed operation in the subways is included in the cost.

San Francisco owns and operates under the direction of its Public Utilities Commission, a system of street railways which annually transports 85 million passengers. Existing municipal lines will be operated in the proposed subways on Market Street and Geary Street and a new Municipal Railway service is proposed for Mission Street and Bernal Cut to the Ocean View District. Each line has been planned with a view to future extensions as necessity demands.

4. The estimated cost of each of the projects proposed is shown on the attached tabulation which also shows the division between overhead and construction costs.

5. The San Francisco Chamber of Commerce, Down Town Association, Retail Credit Association, Real Estate Board, and the residents represented by many improvement clubs and associations, are all deeply interested in the immediate construction of rapid transit lines which will begin operation close to the time of the completion of the bridges. The organized down-town business and financial interests have definitely indicated their willingness to support a program of rapid transit construction. No opposition to the project has appeared in any quarter, as everyone feels the necessity for relief from traffic congestion and slow travel to the residential sections of the City.

6. An appropriation was made to the Public Utilities Commission in December 1934, with which to study and report on the initial rapid transit requirements and the rearrangement of service to the bridges and the peninsula towns. The cost estimates submitted herewith have already been prepared and the major fundamentals of construction worked out. Many proposals have been examined, time and traffic studies prepared and the recommended lines tentatively selected. Negotiations are under way for the review of the project by an engineer of national reputation. Plans and specifications for portions of the work can be issued within ninety days after the receipt of funds.

7. It is preliminarily estimated that 4,700,000 man days will be required in the prosecution of the work, providing employment for 8,000 men on construction.

8. The materials required for the projects are practically all of the heavier basic types. The following is an estimate of some of the requirements:

Cement	250,000 barrels
Crushed rock	250,000 cu.yds.
Structural and reinforcing steel	40,000 tons
Rails	4,000 tons
Ties	60,000 pcs.
Lumber	40,000 M feet
Cars	38
Car barns and shops	2
Copper wire and cables	100 tons

PRELIMINARY ESTIMATE OF COST OF INITIAL RAPID TRANSIT SYSTEM IN SAN FRANCISCO

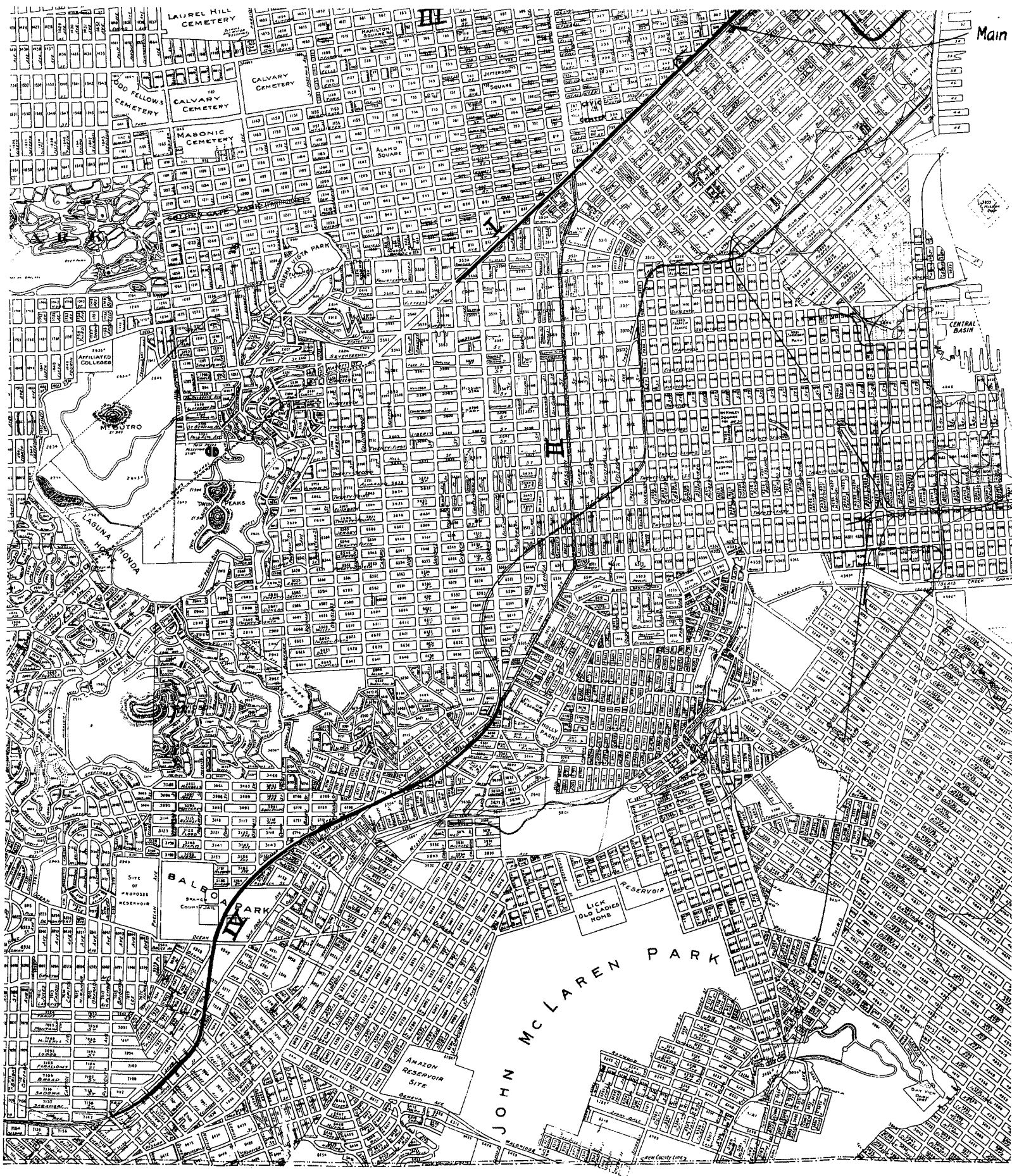
APRIL 1935

	Pre- lim- inary	Lands and R.O.F.	CONSTRUCTION COSTS			Engineer- ing	Legal and Adminis- tration	Interest during Con- struction	Grand Total
			Labor	Material	Total				
1-MARKET STREET SUBWAY from the Transbay Terminal to just east of Church St. with a ramp to the surface 2-3/4 mi. of double track, six stations	\$100,000	\$100,000	\$ 9,000,000	\$ 8,050,000	\$17,050,000	\$1,100,000	\$100,000	\$ 750,000	\$19,200,000
2-MISSION STREET SUBWAY from Market St. subway at Van Ness Ave. via Mission St. to Ran- dall St. 2-1/2 mi. of double track, six stations, cars and car storage	100,000	350,000	8,850,000	7,750,000	16,600,000	1,100,000	100,000	750,000	19,000,000
3-GEARY STREET SUBWAY from Hamilton Square east on Geary St. to Market St; on Market St. to Montgomery St; on Mont- gomery St. to Columbus Ave. with a ramp to the surface and a loop on the surface 2-1/2 mi. of double track, five stations	80,000	—	7,590,000	6,710,000	14,300,000	900,000	80,000	640,000	16,000,000
4-BERNAL GUT SURFACE LINE from a connection with the Mission St. subway through the Bernal Gut to Monterey Blvd., thence over S.F. R/R to Ocean View, 3 mi. of double track on private r/w and 10 cars	20,000	500,000	720,000	590,000	1,310,000	50,000	40,000	80,000	2,000,000
	\$300,000	\$950,000	\$26,160,000	\$23,100,000	\$49,260,000	\$3,150,000	\$320,000	\$2,220,000	\$56,200,000

Main Retail District

FRANCISCO





This is a detailed black and white map of San Francisco, California, showing the city's layout, including streets, parks, and landmarks. The map is oriented with North at the top. Key features include the Golden Gate Bridge in the upper left, the San Francisco Bay in the upper right, and the city grid in the center. Labeled areas include 'U.S. MILITARY RESERVE' in the lower left, 'MUNICIPAL GOLF COURSE' in the lower center, and 'BALBOA PARK' in the lower right. The map is densely packed with street names and lot numbers, with a grid system overlaid on the city area.

Rapid Transit. 4/8/35.

MAP
OF THE
City and County of
SAN FRANCISCO

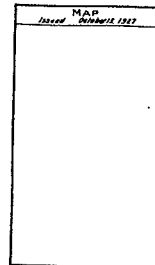
PREPARED BY THE
BOARD OF PUBLIC WORKS.

M.M. O'SHAUGHNESSY
CITY ENGINEER

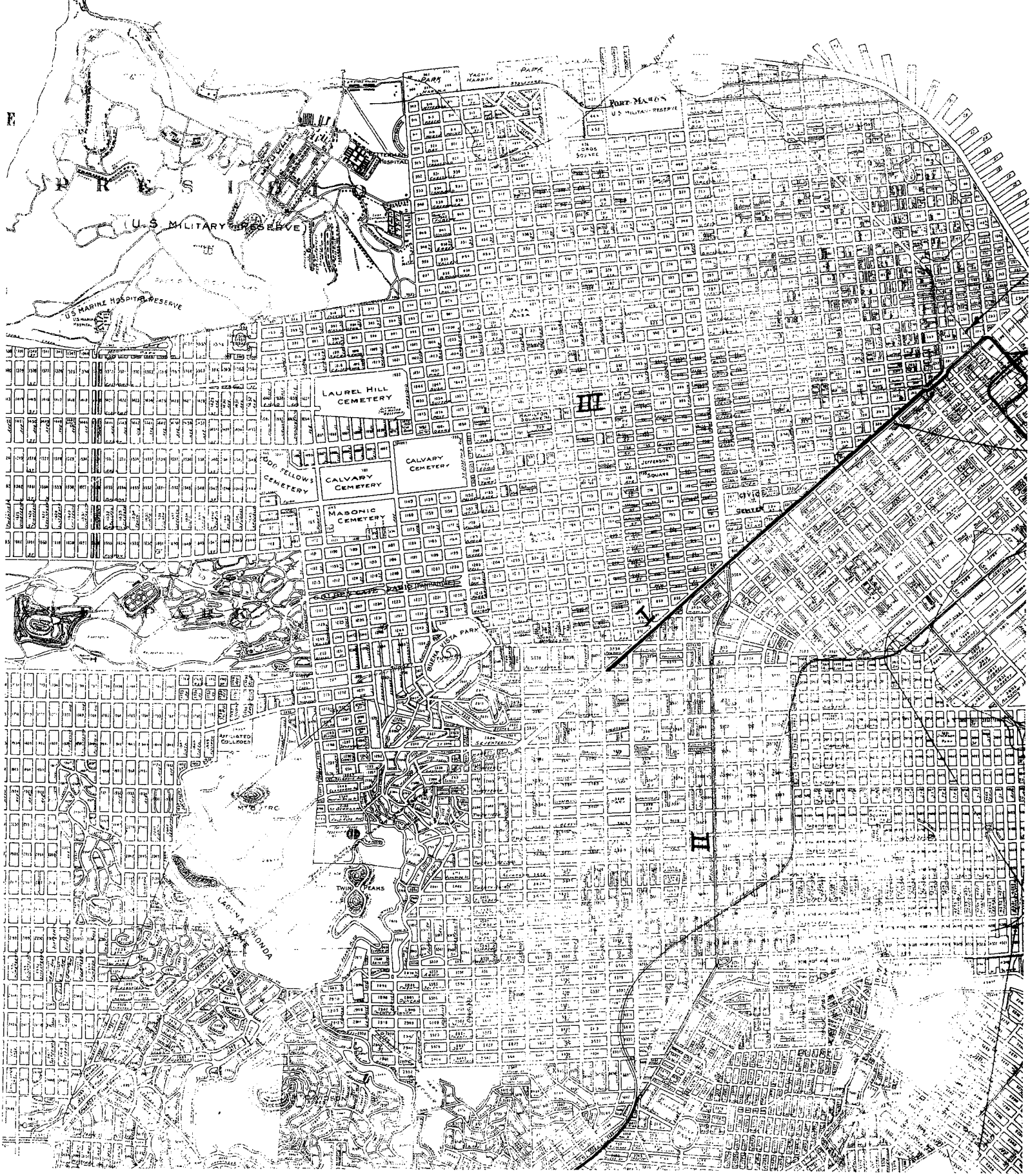
1927

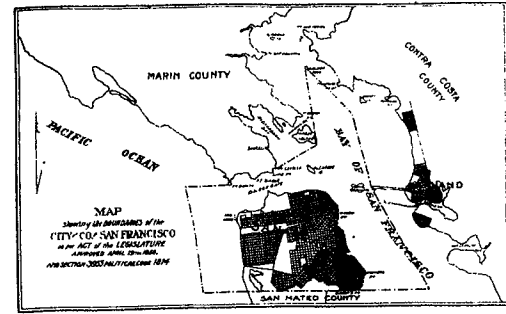
SCALE OF FEET
0 100 200 300 400 500 600 700 800 900 1000

ALABAMA
cartographer



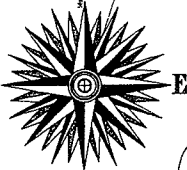
LDEN GATE
Sale Bridge
Fort Pt
12 FT WINFIELD SCOTT





GOLDEN GATE

Golden Gate Bridge



I C O C E A N

D
REF
388.4097
Sa528